

WE CLAIM:

1. (original) Inbred corn seed designated G3601, seed of that has been deposited in the ATCC accession number X.
2. (original) A corn plant produced by the seed of Claim 1.
3. (original) A tissue culture of regenerable cells of G3601 of Claim 1 wherein the cells of the tissue culture regenerates plants capable of expressing the all of the physiological and morphological characteristics of G3601.
4. (previously presented) The tissue culture of regenerable cells according to Claim 3, the cells or protoplasts of said cells ~~produced from the tissue culture, said tissue culture being selected from the group consisting of:~~ leaves, pollen, embryos, roots, root tips, meristem, ovule anthers, silk, flowers, kernels, ears, cobs, husks and stalks.
5. (original) A corn plant capable of expressing all of the physiological and morphological characteristics of G3601 regenerated from the cells of the tissue culture of Claim 3.
6. (original) Hybrid seed produced by the method comprising the following steps:
 - (a) planting, in pollinating proximity, seeds of corn inbred lines G3601 which has been deposited in the ATCC accession number X and another inbred line, one of said inbred lines not releasing pollen;
 - (b) cultivating corn plants resulting from said planting;
 - (c) allowing cross pollination to occur between said inbred lines; and
 - (d) harvesting seeds produced on the non-pollen releasing inbred.

7. (original) Hybrid seed produced by the method comprising a hybrid combination of plants of inbred corn seed designated G3601 in Claim 1 and plants of another inbred line.
8. (original) Hybrid plants grown from seed of Claim 7.
9. (currently amended) A first generation (F1) hybrid corn plant produced by using inbred plant G3601 seed of which has been deposited in the ATCC accession number X in the process of:
 - (a) planting, in pollinating proximity, seeds of corn inbred lines G3601 and another inbred line;
 - (b) cultivating corn plants resulting from said planting;
 - (c) preventing pollen production by the plants of one of the inbred lines;
 - (d) allowing natural cross-pollination to occur between said inbred lines;
 - (e) harvesting seeds produced on plants of the inbred line of step (c); and
 - (f) growing a harvested seed of step (e).
10. (previously presented) A tissue culture of regenerable cells formed from cells of the hybrid of Claim 8.
11. (previously presented) A tissue culture of regenerable cells formed from cells of the hybrid of Claim 9.
12. (currently amended) The plant according to Claim 2, ~~including wherein~~ in the plant has at least one transgenic gene introduced into the plant by crossing with another plant which comprises at least one transgenic gene selected from a group of genes conferring: insect resistance, herbicide resistance, disease resistance.

13. (currently amended) A seed according to Claim 1, including wherein the seed comprises at least one transgenic gene and the seed was harvested from the plant of claim 12.

14. (previously presented) Hybrid seed comprising at least one transgenic gene capable of being identified, said seed produced by hybrid combination of plants of inbred corn seed in claim 13 and plants of another inbred line.

15. (currently amended) The plant according to Claim 2, wherein in the plant has at least one mutated gene introduced into the plant by crossing with another plant which comprises at least one including in the plant at least one mutant mutated gene selected from a group consisting of: sugary 1, shrunken 1, waxy, amylose extender (AE) and mutated genes conferring resistance to herbicide.

16. (currently amended) The seed according to Claim 1, wherein the seed comprises including at least one mutant mutated gene and the seed was harvested from the plant of claim 15.

17. (previously presented) Hybrid seed comprising at least one mutant gene said seed produced by hybrid combination of plants of inbred corn seed in Claim 16 and plants of another inbred line.

~~18.~~ 18. (currently amended) A method of identifying the seed according to claim 1, the steps comprising: planting hybrid seed from a bag of hybrid seed comprising a trace amount of inbred seed according to claim 1, selecting plants from the planting that appear less robust than the other plants, self-pollinating the selected plants and harvesting the resultant seed therefrom,

~~identifying~~identifying the resultant seed as being genetically the same seed as the seed on deposit according to claim 1.

~~19.~~ 19. (currently amended) The method of claim 18 comprising: the additional step of screening plant material derived from the selected plants or the harvested seed with biological techniques wherein identifying the seed as inbred seed according to claim 1. ~~an inbred seed.~~

20. (previously presented) The pollen of the corn plant of claim 2.



CERTIFICATE OF MAILING UNDER 37 C.F.R. 1.8

I hereby certify that the foregoing Response to Office Action of 5/14/03 for application 09/811,048, the marked claims consisting of 4 pages and postcard are being mailed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 15th day of September, 2003.

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